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**For release: Wednesday, August 31, 2011**

**BLS-11-123**

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## OCCUPATIONAL EMPLOYMENT AND WAGES IN PORTLAND-VANCOUVER-BEAVERTON, MAY 2010

Workers in the Portland-Vancouver-Beaverton Metropolitan Statistical Area had an average (mean) hourly wage of \$22.58 in May 2010, roughly 6 percent above the nationwide average of \$21.35, according to the U.S. Bureau of Labor Statistics. Regional Commissioner Richard J. Holden noted that, after testing for statistical significance, wages in the local area were significantly higher than their respective national averages in 12 of the 22 major occupational groups, including healthcare practitioners and technical, construction and extraction, and protective service. Three groups had significantly lower wages than their respective national averages: legal, business and financial operations, and management.

When compared to the nationwide distribution, local employment was more highly concentrated in 9 of the 22 occupational groups, including architecture and engineering, production, and transportation and material moving. Conversely, seven groups had employment shares significantly below their national representation, including protective service, office and administrative support, and building and grounds cleaning and maintenance. (See table A and box note at end of release.)

**Table A. Occupational employment and wages by major occupational group, United States and the Portland-Vancouver-Beaverton Metropolitan Statistical Area, and measures of statistical significance, May 2010**

Major occupational group	Percent of total employment		Average hourly wage	
	United States	Portland	United States	Portland
<b>Total, all occupations</b>	100.0%	100.0%	\$21.35	\$22.58 *
Management	4.7	5.1 *	50.69	49.78 *
Business and financial operations	4.8	5.0 *	32.54	31.31 *
Computer and mathematical	2.6	2.9 *	37.13	37.10
Architecture and engineering	1.8	2.6 *	36.32	36.25
Life, physical, and social science	0.8	1.0 *	31.92	30.53
Community and social service	1.5	1.8 *	20.76	21.02
Legal	0.8	0.7 *	46.60	40.35 *
Education, training, and library	6.7	6.3 *	24.25	23.73
Arts, design, entertainment, sports, and media	1.4	1.6 *	25.14	24.77
Healthcare practitioners and technical	5.8	5.5	34.27	40.05 *
Healthcare support	3.1	2.8 *	12.94	14.74 *
Protective service	2.5	1.7 *	20.43	22.44 *
Food preparation and serving related	8.7	8.6	10.21	11.54 *
Building and grounds cleaning and maintenance	3.3	2.9 *	12.16	12.63 *
Personal care and service	2.7	2.7	11.82	12.12
Sales and related	10.6	10.6	17.69	19.39 *
Office and administrative support	16.9	16.3 *	16.09	16.93 *
Farming, fishing, and forestry	0.3	0.3	11.70	14.37 *
Construction and extraction	4.0	3.8	21.09	24.01 *
Installation, maintenance, and repair	3.9	3.7 *	20.58	22.04 *
Production	6.5	7.0 *	16.24	16.92 *
Transportation and material moving	6.7	7.2 *	15.70	16.54 *

\* The percent share of employment or mean hourly wage for this area is significantly different from the national average of all areas at the 90-percent confidence level.

One occupational group—architecture and engineering—was chosen to illustrate the diversity of data available for any of the 22 major occupational categories. Portland-Vancouver-Beaverton had 25,090 jobs in architecture and engineering, accounting for 2.6 percent of local area employment, significantly higher than the 1.8-percent share nationally. The average hourly wage for this occupational group locally was \$36.25, compared to the national wage of \$36.32.

With employment of 2,900, civil engineers was the largest occupation within the architecture and engineering group, followed by electrical and electronics engineering technicians (2,430) and electronics engineers, except computer (2,420). Among the higher paying jobs were electrical engineers and electronics engineers, except computer, with mean hourly wages of \$45.21 and \$45.12, respectively. At the lower end of the wage scale were electro-mechanical technicians (\$22.65) and architectural and civil drafters (\$23.17). (Detailed occupational data for architecture and engineering are presented in table 1; for a complete listing of detailed occupations available go to [www.bls.gov/oes/current/oes\\_38900.htm](http://www.bls.gov/oes/current/oes_38900.htm))

Location quotients allow us to explore the occupational make-up of a metropolitan area by comparing the composition of jobs in an area relative to the national average. (See table 1.) For example, a location quotient of 2.0 indicates that an occupation accounts for twice the share of employment in the area than it does nationally. In the Portland-Vancouver-Beaverton Metropolitan Statistical Area, above average concentrations of employment were found in many of the occupations within the architecture and engineering group. For instance, electronics engineers, except computer, were employed at 2.4 times the national rate in Portland, and electrical and electronics engineering technicians, at 2.2 times the U.S. average. On the other hand, civil engineering technicians had a location quotient of 1.2 in Portland, indicating that this particular occupation's local and national employment shares were similar.

These statistics are from the Occupational Employment Statistics (OES) survey, a federal-state cooperative program between BLS and State Workforce Agencies, in this case, the Oregon Employment Department. The OES survey provides estimates of employment and hourly and annual wages for wage and salary workers in 22 major occupational groups and nearly 800 non-military detailed occupations for the nation, states, metropolitan statistical areas, metropolitan divisions, and nonmetropolitan areas.

OES wage and employment data for the 22 major occupational groups in the Portland Metropolitan Statistical Area were compared to their respective national averages based on statistical significance testing. Only those occupations with wages or employment shares above or below the national wage or share after testing for significance at the 90-percent confidence level meet the criteria.

NOTE: A value that is statistically different from another does not necessarily mean that the difference has economic or practical significance. Statistical significance is concerned with the ability to make confident statements about a universe based on a sample. It is entirely possible that a large difference between two values is not significantly different statistically, while a small difference is, since both the size and heterogeneity of the sample affect the relative error of the data being tested.

### **Technical Note**

The Occupational Employment Statistics (OES) survey is a semiannual mail survey measuring occupational employment and wage rates for wage and salary workers in nonfarm establishments in the United States. Guam, Puerto Rico, and the Virgin Islands also are surveyed, but their data are not included in this release. OES estimates are constructed from a sample of about 1.2 million establishments. Forms are mailed to approximately 200,000 establishments in May and November of each year for a 3-year period. The nationwide response rate for the May 2010 survey was 78.2 percent based on establishments and 74.4 percent based on employment. May 2010 estimates are based on responses from six semiannual panels collected over a 3-year period: May 2010, November 2009, May 2009, November 2008, May 2008, and November 2007. The sample in the Portland-Vancouver-Beaverton Metropolitan Statistical Area included 7,080 establishments with a response rate of 75 percent. For more information about OES concepts and methodology, go to [www.bls.gov/news.release/ocwage.tn.htm](http://www.bls.gov/news.release/ocwage.tn.htm).

The May 2010 OES estimates mark the first set of estimates based in part on data collected using the 2010 Standard Occupational Classification (SOC) system. Nearly all the occupations in this release are 2010 SOC occupations; however, some are not. The May 2012 OES data will reflect the full set of detailed occupations in the 2010 SOC. For a list of all occupations, including 2010 SOC occupations, and how data collected on two structures were combined, see the OES Frequently Asked Questions online at [www.bls.gov/oes/oes\\_ques.htm#Ques41](http://www.bls.gov/oes/oes_ques.htm#Ques41).

### **Area definitions**

The substate area data published in this release reflect the standards and definitions established by the U.S. Office of Management and Budget.

The **Portland-Vancouver-Beaverton, Ore. Metropolitan Statistical Area** includes Clackamas, Columbia, Multnomah, Washington, and Yamhill Counties of Oregon and Clark and Skamania Counties of Washington.

### **Additional information**

OES data are available on our regional web page at [www.bls.gov/ro9/home.htm](http://www.bls.gov/ro9/home.htm). If you have additional questions, contact the San Francisco Economic Analysis and Information Unit at (415) 625-2270. Information in this release will be made available to sensory impaired individuals upon request. Voice phone: 202-691-5200; TDD message referral phone number: 1-800-877-8339.

**Table 1. Employment and wage data from the Occupational Employment Statistics survey, by occupation, Portland-Vancouver-Beaverton Metropolitan Statistical Area, May 2010**

Occupation	Employment		Mean Wages	
	Level <sup>[1]</sup>	Location quotient <sup>[2]</sup>	Hourly	Annual
Architecture and engineering occupations	25,090	1.4	\$36.25	\$75,400
Architects, except landscape and naval	1,350	2.0	33.70	70,100
Landscape architects	[3]	[3]	31.57	65,660
Cartographers and photogrammetrists	300	3.4	25.95	53,980
Surveyors	320	1.0	32.83	68,290
Aerospace engineers	[3]	[3]	36.44	75,790
Biomedical engineers	60	0.5	31.95	66,460
Chemical engineers	110	0.5	38.83	80,760
Civil engineers	2,900	1.5	36.75	76,450
Electrical engineers	1,590	1.4	45.21	94,040
Electronics engineers, except computer	2,420	2.4	45.12	93,850
Environmental engineers	440	1.2	36.26	75,420
Health and safety engineers, except mining safety engineers and inspectors	110	0.6	39.67	82,500
Industrial engineers	1,910	1.2	40.49	84,230
Materials engineers	270	1.6	39.70	82,570
Mechanical engineers	2,080	1.2	40.77	84,800
Engineers, all other	1,340	1.3	45.55	94,740
Architectural and civil drafters	800	1.2	23.17	48,200
Electrical and electronics drafters	350	1.7	24.94	51,880
Mechanical drafters	570	1.2	24.81	51,590
Drafters, all other	200	1.7	25.80	53,670
Civil engineering technicians	680	1.2	26.51	55,150
Electrical and electronics engineering technicians	2,430	2.2	26.64	55,410
Electro-mechanical technicians	140	1.2	22.65	47,110
Environmental engineering technicians	120	0.8	25.60	53,250
Industrial engineering technicians	620	1.3	24.51	50,980
Mechanical engineering technicians	390	1.2	24.83	51,640
Engineering technicians, except drafters, all other	810	1.6	25.83	53,720
Surveying and mapping technicians	670	1.6	24.81	51,600

[1] Estimates for detailed occupations do not sum to the totals because the totals include occupations not shown separately. Estimates do not include self-employed workers.

[2] The location quotient is the ratio of the area concentration of occupational employment to the national average concentration. A location quotient greater than one indicates the occupation has a higher share of employment than average, and a location quotient less than one indicates the occupation is less prevalent in the area than average.

[3] Estimate not released.